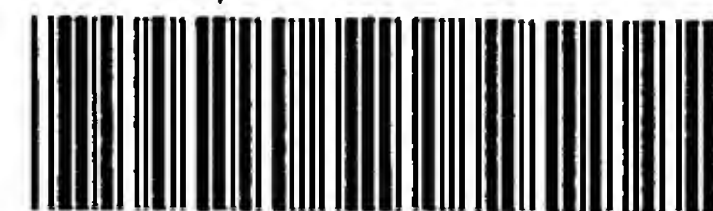# RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/578,701_

Source: _1FWP_

Date Processed by STIC: _5/18/06_

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RAW SEQUENCE LISTING   DATE: 05/18/2006
PATENT APPLICATION: US/10/578,701   TIME: 10:27:53

Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\05182006\J578701.raw**

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   3 <110> APPLICANT: BioVentures, Inc.
   4        Vanderbilt University
   5        Dawson, Elliot P.
   6        Phillips, John A.
   7        Womble, Kristie E.
   9 <120> TITLE OF INVENTION: Chromosome 5 Genetic Variants Related to Dyslexia
  11 <130> FILE REFERENCE: 14160-2US
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/578,701
C--> 13 <141> CURRENT FILING DATE: 2006-05-09
  13 <150> PRIOR APPLICATION NUMBER: 60/520,366
  14 <151> PRIOR FILING DATE: 2003-11-14
  16 <150> PRIOR APPLICATION NUMBER: PCT/US04/37587
  17 <151> PRIOR FILING DATE: 2004-11-13
  19 <160> NUMBER OF SEQ ID NOS: 25
  21 <170> SOFTWARE: PatentIn version 3.2
  23 <210> SEQ ID NO: 1
  24 <211> LENGTH: 3664
  25 <212> TYPE: DNA
  26 <213> ORGANISM: Homo sapiens
  28 <400> SEQUENCE: 1
  29 gaattaagca ttttagcatt ctttattaat ttttcaaagt cactaggacc aaggataaca     60
  31 attcatcatg tgcatacaag gccattctgt gtttcctact cttgccttgg gctcatcatt    120
  33 attaatctgg aattccattt gttcttcact ttttgaatat gtctgtttag ttgactgtag    180
  35 tgccactggc aggaccatgt gcccaggaaa tccaagactc atatttggac gaaagctatg    240
  37 tccacttttc aactagtacc cctacccaaa ttaccatagc aaccaaaaaa ttgcagatgc    300
  39 ctacattcta gaatcatgtt ctaaagggat gtcatcattt acaaaatgtc tttgttgagt    360
  41 ctgaatggtt caaacaatag caaaaaagga ttatttctct cttggacatt tcaaagtact    420
  43 atgacacaaa atatccaaga cttgttatgg tgaggagcca agtggaatgg aaaggacagc    480
  45 tcatcccggc ggctgggagt gcatgcacac acatgccccc tttttcttgc ctactaacag    540
  47 gatctataga aggcgtacat aatgagtatg taggggactt ggctgctttc agttaggaat    600
  49 gagacactga tatggttgga atatagtaag agaaaaaggg aggtctttct taaaaaacgg    660
  51 ttttgtgtaa aaatagagat ggcacttaat ggatatcata ttagcaggct ccctggacaa    720
  53 atacatagag ccaaaacttc tcatcgatta gccacctctt caagtttagg ggttgaaaat    780
  55 ctgaaacaac tacaaacatg gtatctctct gaaaggagga taacgtaaaa gttatcacat    840
  57 attaatataa tgtgtatgaa taaattgaca agctggttag aaattagaaa taaaagtctt    900
  59 gaggcaataa aagaggtaat aacataggca aaaagagctc ttcttctgga gagtggttgt    960
  61 agatggagta aacaagttta ggtactgaac tgagaatagc acatggatag accaattgtg   1020
  63 gatgaaggag actaaagaga ggtttaacga atattgaaat gaacctccag gtaggttgta   1080
  65 tttattagtt tgctgggaac aagctgcttt tctctctcct gtgaagcagg aaggcaaatt   1140
  67 tctagtggct ttccaaagga aatgggaaat ctaaggaaat ggtttgatac cagagtgttc   1200
  69 tccttaggtt tattttaatg atggacttaa agatactttc ctatactcat gagctatgtt   1260
  71 gtctctgata ttctttggta tattttacca aaaagataga ataggtgcca caagtattaa   1320
  73 aaattttaga ctcctcagag cattacaaaa aacaagcaca aaatagaagc ctaatatgca   1380
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PATENT APPLICATION: US/10/578,701   TIME: 10:27:53

Input Set : A:\Sequence Listing.txt
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 75 gggaaagtca ctgaccatgc ccttggtact gctgattgta ttgcagagca agagatggac   1440
 77 cctgagggta cttgaagcca acaagtttca cttctggaaa aagacttcag aatatgagtt   1500
 79 taaaatataa aaagggaatt tgagccaaga cacaagaaca aacttttttt gacaattata   1560
 81 tctttattat tcctcttaca gagctacatt tactcttact aagtttcaga gtcaggtagt   1620
 83 aatttacagt aagactgaat taccatccat aacgttagat gtccttattg aaacttcaac   1680
 85 atcatttcca aatatcagca ttagcattgt gcttgacatt catttaacga agttactgaa   1740
 87 aatctattaa gtataagaca tcagttattt ttaatagaag tttctgaaaa catttcagca   1800
 89 aaatagcctg ttgagaaaaa tgtgtatgct gaaaaaaaaa aatgaacaaa taggaaagcc   1860
 91 tggttcacaa acaggtgtca gggaaataga cagtactttt atagtaataa cataagaaca   1920
 93 aacttcttga aggtaagttt tattaaataa taggacaaca acaagataaa atgacttctt   1980
 95 cctgatattt atatattgat tgctggctgg tcataagact gttttttaggc aacgtgtttt   2040
 97 gaaaaaccag aaagtctact accttgagtt ttcagccacg tgagaatagc aagattcagt   2100
 99 gtttatactt gatagcatct taattaggcc tacaggcctc cctttcacat aactaccttc   2160
101 aagtttatga cagctcaaac tcacaattat cattatggag aagagagaag agttaagcta   2220
103 aaaacagacc actttcagag gacctgaaag caacgtaatc agtcacctat tgccatatac   2280
105 aagccacccc caaacataat gacttaaaac agcgatcatc tattattgct tatgagtctc   2340
107 tgagtcagct gaacattcct gctgatctgg gcttggttag gcttatttta gctgtgttca   2400
109 ttcttggtct gcagatagct gacaatcacc taggggctga ctgtaggcat tccagctgag   2460
111 atatgctctc tgtgtctttt atcctttagc aggaggaggc ttgctcacag ggtggttaca   2520
113 ggcatccaag agagtcagca taaatgtgaa aagtttccaa aatatcagat tcagtcctat   2580
115 gtaatctggt ttccattgca ttctcttggc cagagcaagt tgcaagacaa gtccaaattc   2640
117 aagaaggtca agaaatacac tccatctcca ggtaggagaa gctgcaaaga actgtgacaa   2700
119 tctatgacaa atagtatgtt caaagggaat aatatgggaa gatgtgccct ccgccaactt   2760
121 ctcagggaaa aatacagctt ttgtaatatt tagtaatata gactgtctaa tatttctaga   2820
123 gaaatctatg actttgagtt gaaatatctg aggccaacac tccaagcaat tttaaacaag   2880
125 tggtgacaga aattaccaga cacacatcaa gactcaagta taaagctata caatttaagg   2940
127 atgctcagca aatgttactg aattgactgg gtagtcccta aagagctgaa gaataaaaga   3000
129 tgttatgaga aatccaacaa taccaaatat aaattgcctc aggttctgaa atattcaata   3060
131 aagtattctc actgtagttc cttcagctta gctgatttgg actttggctg tgaaaacatt   3120
133 atcctcagtg tttaaaaggt tggaaaattc tactgggtct ttggcccaac ctggaattaa   3180
135 atcctgatgc ttagaacctc aaagtctaaa atcttctatt gtcactttac agagctattg   3240
137 aaacatatta ataaacttgt atcatactga tttgattcta atttttgtgg gacattgttt   3300
139 aaaaattgtt gaaatgcata tatggaaaat tgattttta agtaaatgta taactttaa    3360
141 aattgtatcc tacatctaac tccaaataaa ggtttaaaaa caactatgag caatataagt   3420
143 aatacattta aaatacattt aagagaaaga taaggaaaaa aggaatgact catgaaggtt   3480
145 agtacacaat ctatgcatct tgaatatttg cacacttacc aagtatttgg ctccagggtt   3540
147 tctggcagct aatgcaaaga gaggaacaga atcaagtttc atggtattat ctggtagact   3600
149 gtggaagcta tagcatttct gcccctcat gttttcacat tcccctttag agaacagcac   3660
151 aata                                                                3664
154 <210> SEQ ID NO: 2
155 <211> LENGTH: 22
156 <212> TYPE: DNA
157 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: synthetic primer
162 <400> SEQUENCE: 2
163 actaagaagt gcattagtcg gg                                             22
166 <210> SEQ ID NO: 3
167 <211> LENGTH: 20
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PATENT APPLICATION: **US/10/578,701**   TIME: 10:27:53

Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\05182006\J578701.raw**

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168 <212> TYPE: DNA
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: synthetic primer
174 <400> SEQUENCE: 3
175 ttcctgtgct ctagcttgct                                      20
178 <210> SEQ ID NO: 4
179 <211> LENGTH: 20
180 <212> TYPE: DNA
181 <213> ORGANISM: Artificial Sequence
183 <220> FEATURE:
184 <223> OTHER INFORMATION: synthetic primer
186 <400> SEQUENCE: 4
187 tgcaaatcta tgctgcaaaa                                      20
190 <210> SEQ ID NO: 5
191 <211> LENGTH: 20
192 <212> TYPE: DNA
193 <213> ORGANISM: Artificial Sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: synthetic primer
198 <400> SEQUENCE: 5
199 ggttgcctaa tcacgagaaa                                      20
202 <210> SEQ ID NO: 6
203 <211> LENGTH: 25
204 <212> TYPE: DNA
205 <213> ORGANISM: Artificial Sequence
207 <220> FEATURE:
208 <223> OTHER INFORMATION: synthetic primer
210 <400> SEQUENCE: 6
211 ccaaaggctt ggtgatttag tggac                                25
214 <210> SEQ ID NO: 7
215 <211> LENGTH: 25
216 <212> TYPE: DNA
217 <213> ORGANISM: Artificial Sequence
219 <220> FEATURE:
220 <223> OTHER INFORMATION: synthetic primer
222 <400> SEQUENCE: 7
223 ctagattgaa ggccagaaaa catgc                                25
226 <210> SEQ ID NO: 8
227 <211> LENGTH: 19
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial Sequence
231 <220> FEATURE:
232 <223> OTHER INFORMATION: synthetic primer
234 <400> SEQUENCE: 8
235 aacatcttag ggcatcctg                                       19
238 <210> SEQ ID NO: 9
239 <211> LENGTH: 25
240 <212> TYPE: DNA
```

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Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\05182006\J578701.raw**

```
241 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: synthetic primer
246 <400> SEQUENCE: 9
247 aatgatttaa aatagattag gagca                                      25
250 <210> SEQ ID NO: 10
251 <211> LENGTH: 62
252 <212> TYPE: PRT
253 <213> ORGANISM: Homo sapiens
255 <400> SEQUENCE: 10
257 Met Val Arg Ser Gln Val Glu Trp Lys Gly Gln Leu Ile Pro Ala Ala
258 1               5                   10                  15
261 Gly Ser Ala Cys Thr His Met Pro Pro Phe Ser Cys Leu Leu Thr Gly
262             20                  25                  30
265 Ser Ile Glu Gly Val His Asn Glu Ala Ser Cys Lys Thr Ser Pro Asn
266         35                  40                  45
269 Ser Arg Arg Ser Arg Asn Thr Leu His Leu Gln Arg Asn Leu
270     50                  55                  60
273 <210> SEQ ID NO: 11
274 <211> LENGTH: 45
275 <212> TYPE: PRT
276 <213> ORGANISM: Homo sapiens
278 <400> SEQUENCE: 11
280 Met Val Arg Ser Gln Val Glu Trp Lys Gly Gln Leu Ile Pro Ala Ala
281 1               5                   10                  15
284 Gly Ser Ala Cys Thr His Met Pro Pro Phe Ser Cys Leu Leu Thr Gly
285             20                  25                  30
288 Ser Ile Glu Gly Val His Asn Glu Ala Arg Asp Gly Pro
289         35                  40                  45
292 <210> SEQ ID NO: 12
293 <211> LENGTH: 189
294 <212> TYPE: DNA
295 <213> ORGANISM: Homo sapiens
297 <400> SEQUENCE: 12
298 atggtgagga gccaagtgga atggaaagga cagctcatcc cggcggctgg gagtgcatgc    60
300 acacacatgc cccctttttc ttgcctacta acaggatcta tagaaggcgt acataatgaa   120
302 gcaagttgca agacaagtcc aaattcaaga aggtcaagaa atacactcca tctccagaga   180
304 aatctatga                                                         189
307 <210> SEQ ID NO: 13
308 <211> LENGTH: 138
309 <212> TYPE: DNA
310 <213> ORGANISM: Homo sapiens
312 <400> SEQUENCE: 13
313 atggtgagga gccaagtgga atggaaagga cagctcatcc cggcggctgg gagtgcatgc    60
315 acacacatgc cccctttttc ttgcctacta acaggatcta tagaaggcgt acataatgaa   120
317 gcaagagatg gaccctga                                                138
320 <210> SEQ ID NO: 14
321 <211> LENGTH: 20
322 <212> TYPE: DNA
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PATENT APPLICATION: **US/10/578,701**   TIME: 10:27:53

Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\05182006\J578701.raw**

```
323 <213> ORGANISM: Artificial Sequence
325 <220> FEATURE:
326 <223> OTHER INFORMATION: synthetic primer
328 <400> SEQUENCE: 14
329 cccaggaaat ccaagactca                                    20
332 <210> SEQ ID NO: 15
333 <211> LENGTH: 21
334 <212> TYPE: DNA
335 <213> ORGANISM: Artificial Sequence
337 <220> FEATURE:
338 <223> OTHER INFORMATION: synthetic primer
340 <400> SEQUENCE: 15
341 ctccttcatc cacaattggt c                                  21
344 <210> SEQ ID NO: 16
345 <211> LENGTH: 21
346 <212> TYPE: DNA
347 <213> ORGANISM: Artificial Sequence
349 <220> FEATURE:
350 <223> OTHER INFORMATION: synthetic primer
352 <400> SEQUENCE: 16
353 tcatcgatta gccacctctt c                                  21
356 <210> SEQ ID NO: 17
357 <211> LENGTH: 21
358 <212> TYPE: DNA
359 <213> ORGANISM: Artificial Sequence
361 <220> FEATURE:
362 <223> OTHER INFORMATION: synthetic primer
364 <400> SEQUENCE: 17
365 tgtcaagcac aatgctaatg c                                  21
368 <210> SEQ ID NO: 18
369 <211> LENGTH: 23
370 <212> TYPE: DNA
371 <213> ORGANISM: Artificial Sequence
373 <220> FEATURE:
374 <223> OTHER INFORMATION: synthetic primer
376 <400> SEQUENCE: 18
377 ggtttgatac cagagtgttc tcc                                23
380 <210> SEQ ID NO: 19
381 <211> LENGTH: 21
382 <212> TYPE: DNA
383 <213> ORGANISM: Artificial Sequence
385 <220> FEATURE:
386 <223> OTHER INFORMATION: synthetic primer
388 <400> SEQUENCE: 19
389 gtcttatgac cagccagcaa t                                  21
392 <210> SEQ ID NO: 20
393 <211> LENGTH: 21
394 <212> TYPE: DNA
395 <213> ORGANISM: Artificial Sequence
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VERIFICATION SUMMARY   DATE: 05/18/2006
PATENT APPLICATION: **US/10/578,701**   TIME: 10:27:54

Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\05182006\J578701.raw**

L:13 M:270 C: Current Application Number differs, Replaced Current Application No
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date